Presented to **Liveable Arlington**

Finding Scientific Literature

Google Scholar

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Originally presented
October 14, 2021

Topics

- Defining "the literature", scientific studies
- Resource finding tools
- Google Scholar (Gscholar)
- Search features, techniques, *Cited by*
- Obtaining documents
- Managing downloaded files
- Formal reference styles
- Sharing & copyright

The Literature

Many types of publications can be used in support of the mission of health and environmental groups.

These documents can include
- news investigations and articles,
- scientific studies,
- systematic reviews,
- governmental and organizational reports,
- governmental rules and legislation,
- and more.

This session focuses on locating and obtaining current reports related to scientific studies.

Scientific Studies

Most studies are first reported to the public in thematic journals.

A journal is a type of magazine, a regularly published collection of articles. Journals - considered to be directed toward professional, academic, or scientific audiences, while magazines toward a more general audience. There are many exceptions.

Definitions used in 1st year college settings: Journals don't have advertising [people pay well to have the information]; magazine have lots of ads [businesses pay to give people the opportunity to read their promotions]. This is not accurate but usually close.

There are many, many journals; each tend to direct its contents on the interests of a particular community or social/scientific discipline.

Often anyone can subscribe to specific journals and magazines. There are some exceptions, including those distributed only to members of certain organizations.

Resource Finding Tools

Friends

Libraries, including university libraries

- Their collections - books, journals, and other resources, both print or online.
- Databases (example: GeoRef; SciTech Premium Collection from Proquest).

The internet

- General search engines (example, Google)
- "Current" awareness services (examples: academia.edu, Medscape)
- Specialized search engines (example: Google Scholar)

This presentation focuses on how Google Scholar can be used for current awareness purposes.

Google Scholar – https://scholar.google.com

Google Scholar (Gscholar*) is a really big database containing a subset of material that may also be available via a general Google search.

Free.

Available worldwide via internet.

Audience tends to be academics and professionals whose work relies on scholarly and professional research materials.

Journal publishers recognize how widely it is used so cooperate and collaborate to ensure representation.

*Gscholar is a personal abbreviation & is used only in this presentation.

About Gscholar

Millions of items – journal articles, government & organization reports, dissertations, and so on.

Many resources are full text searched

Includes references to many older, important, seminal works which may or may not have full text versions. (If one knows what it is, a copy can be found other ways.)

Many resources are available full text

One can also set up links to one's favorite libraries for later retrieval.

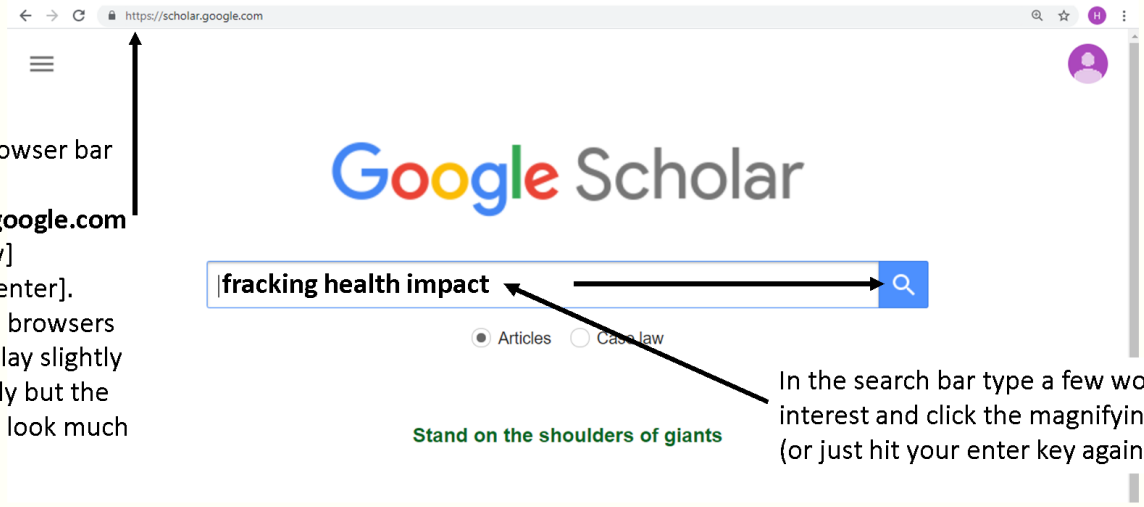
Search Features

Advanced search options beyond general keywords,
exact phrase(s),
"at least one of the words",
"without the words",
author, title, date(s), journal name.

Cited reference searching - From a known work, find new works that use it as reference (searches forward in time).

Can search *within* list of citing references.

Search Techniques

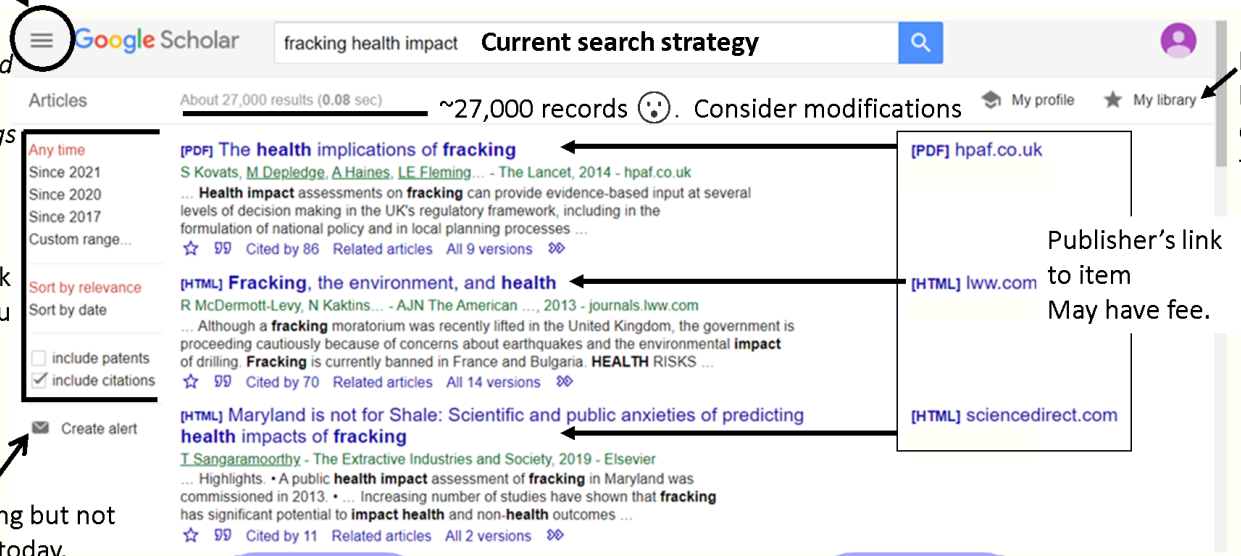


In the browser bar type **scholar.google.com** [no www] and hit [enter]. Different browsers may display slightly differently but the page will look much like this.

In the search bar type a few words of interest and click the magnifying glass (or just hit your enter key again)

Note Search Refinement Opportunities

Additional menus. Includes *Advanced Search* & *Settings*



~27,000 records 😮. Consider modifications

Interesting but not covered today.

Publisher's link to item May have fee.

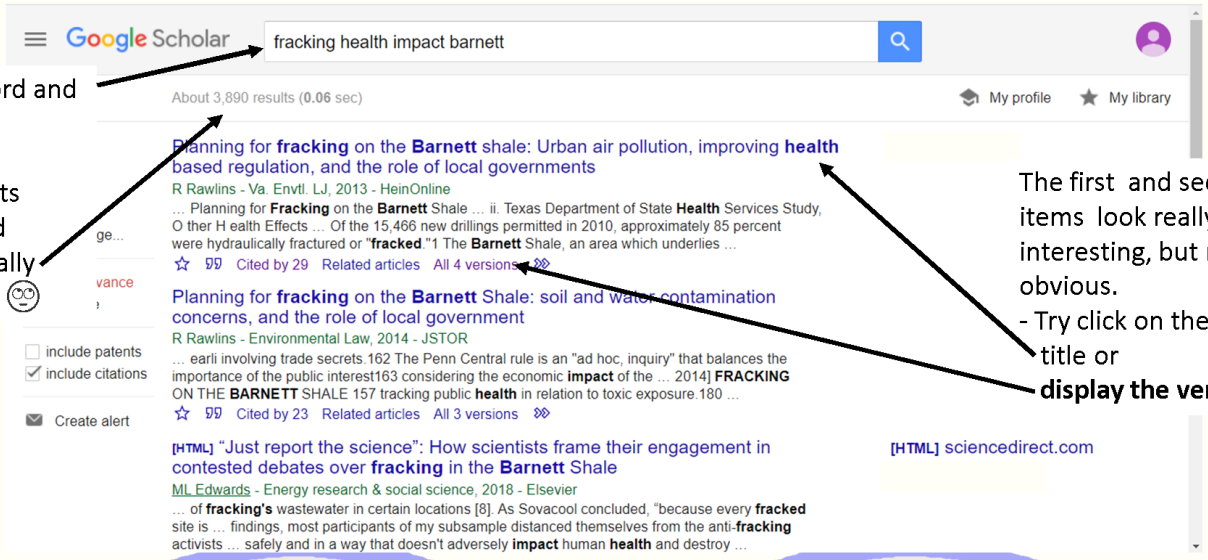
Quick menu

Interesting but not covered today.

Simple Search Modification – Add a word

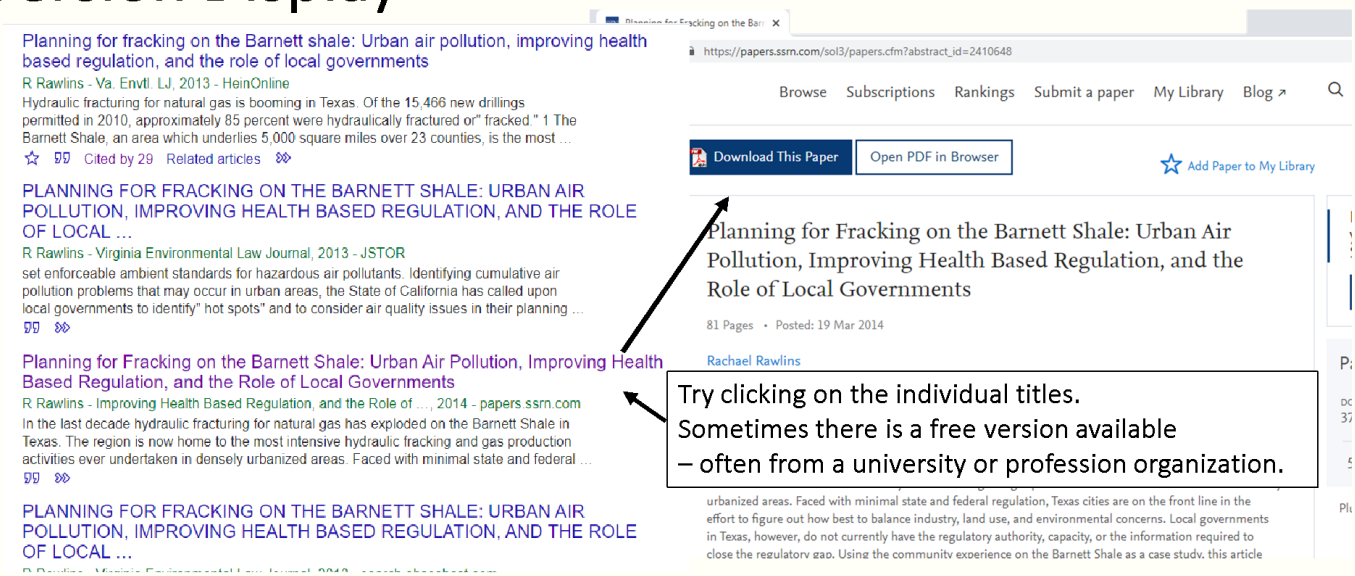
Add a word and <enter>

The results narrowed dramatically (~3,890). ☺



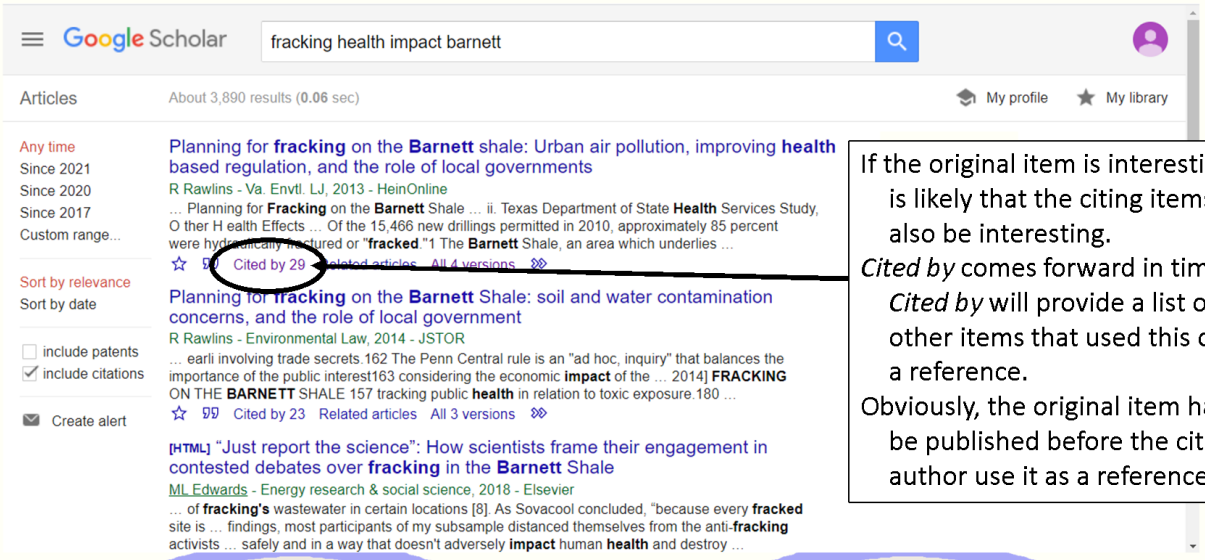
The first and second items look really interesting, but no link is obvious.
- Try click on the title or **display the versions**

Version Display



Try clicking on the individual titles.
Sometimes there is a free version available
– often from a university or profession organization.

Explore *Cited by*

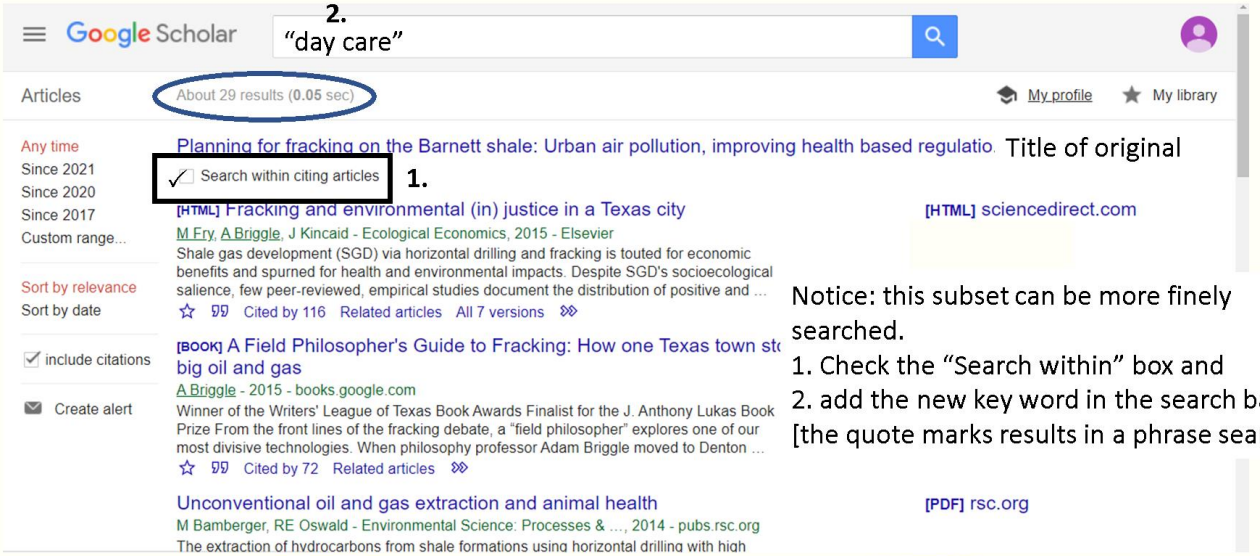


If the original item is interesting, it is likely that the citing items will also be interesting.

Cited by comes forward in time. *Cited by* will provide a list of other items that used this one as a reference.

Obviously, the original item had to be published before the citing author use it as a reference.

Cited by
List of Items Citing to The Same Document



Notice: this subset can be more finely searched.

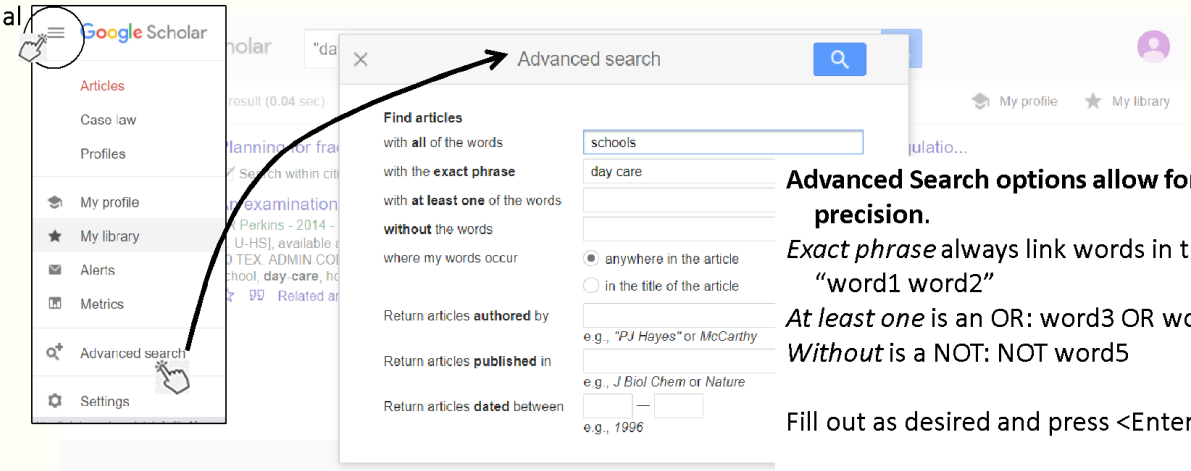
1. Check the "Search within" box and
2. add the new key word in the search bar [the quote marks results in a phrase search]

Cited by search within

This happens to be a Master's document and probably has some good references.

Advanced Search options

Additional menus



Advanced Search options allow for more precision.

Exact phrase always link words in that order "word1 word2"

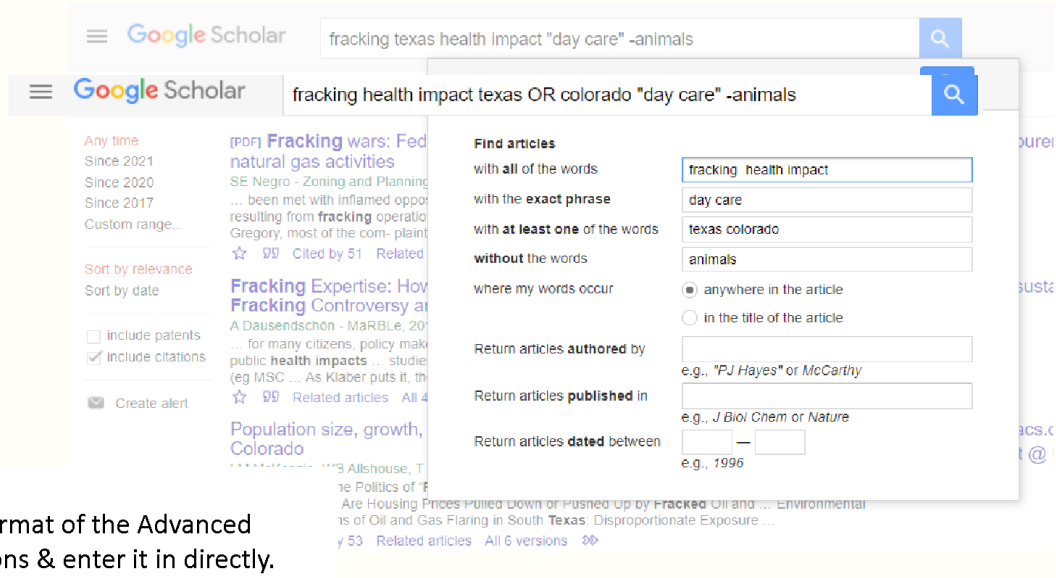
At least one is an OR: word3 OR word4

Without is a NOT: NOT word5

Fill out as desired and press <Enter>

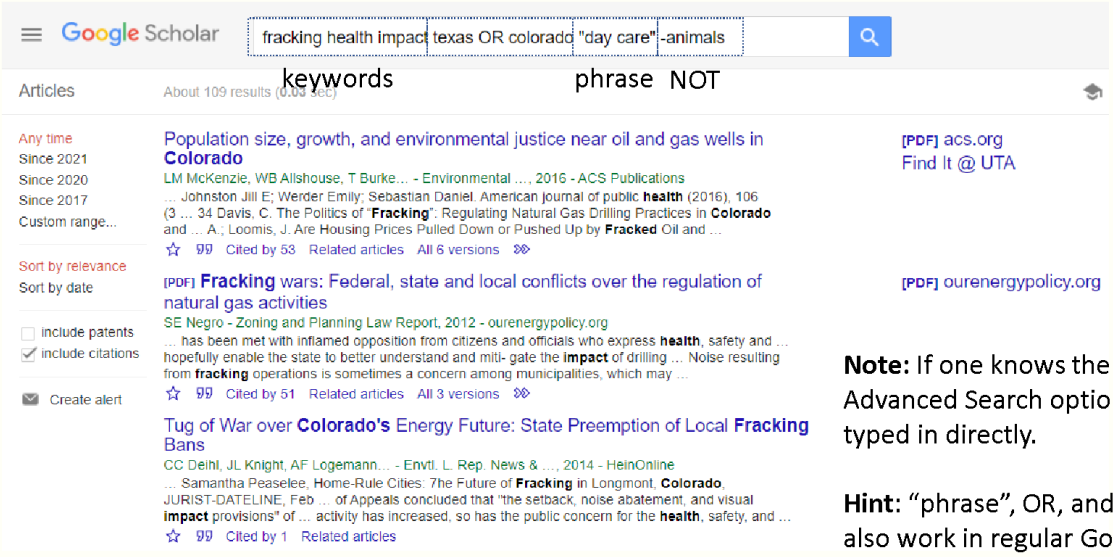
HINT: "phrase", OR, and NOT formatting also work in regular Google searches.

Advanced Search Format



Note:
Learn the format of the Advanced Search options & enter it in directly.

Advanced Search Format



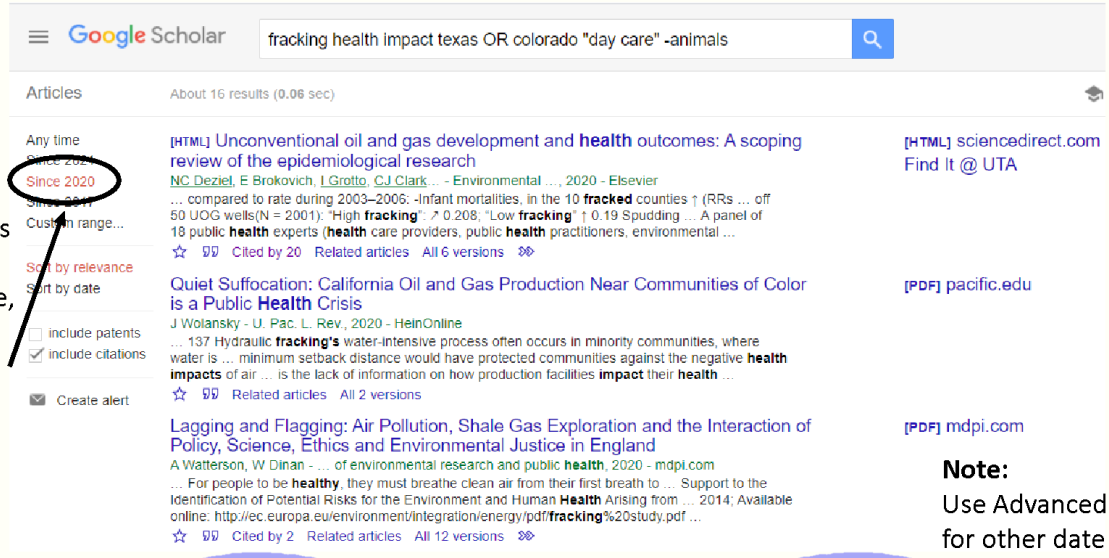
Note: If one knows the format of the Advanced Search options, they can be typed in directly.

Hint: "phrase", OR, and NOT formatting also work in regular Google searches.

Limiting to Current Date Range

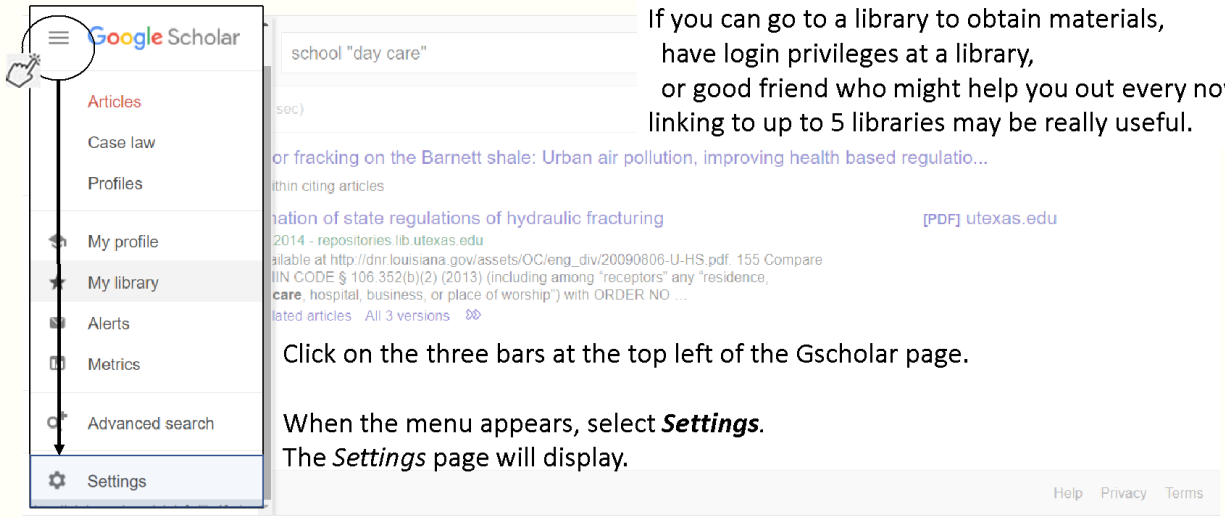
Of the 109 *Any time* items retrieved,
16 are were published between 2020 & 2021

Fast way to limit to current dates
Do the search.
On results page, click on *Since [date]*



Note:
Use Advanced Search menu for other date limits

Linking Libraries to Scholar Results



If you can go to a library to obtain materials,
have login privileges at a library,
or good friend who might help you out every now then,
linking to up to 5 libraries may be really useful.

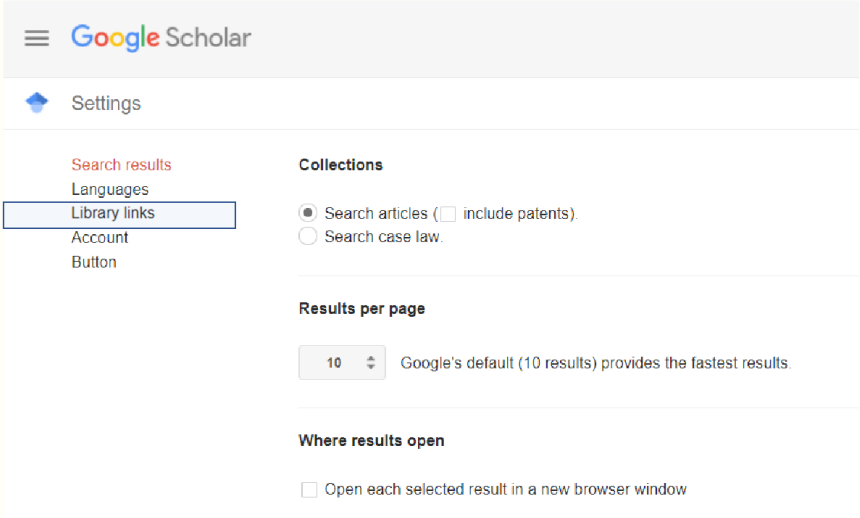
Click on the three bars at the top left of the Gscholar page.

When the menu appears, select ***Settings***.
The *Settings* page will display.

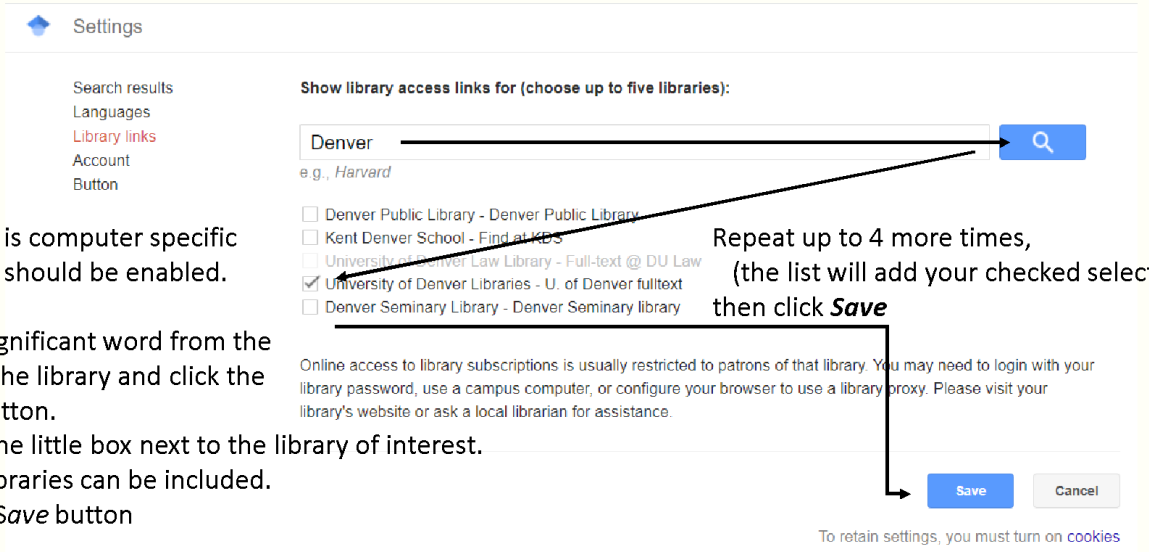
Gscholar Settings Page

Select ***Library Links***.

Another page will display where libraries can be selected.



Selecting Libraries to Link



This feature is computer specific and cookies should be enabled.

1. Enter a significant word from the name of the library and click the search button.
2. Click on the little box next to the library of interest. Up to 5 libraries can be included.
3. Click the *Save* button

Repeat up to 4 more times, (the list will add your checked selections) then click ***Save***

Linked Libraries Display

Only two libraries are linked for this presentation, U of Denver and UT Arlington

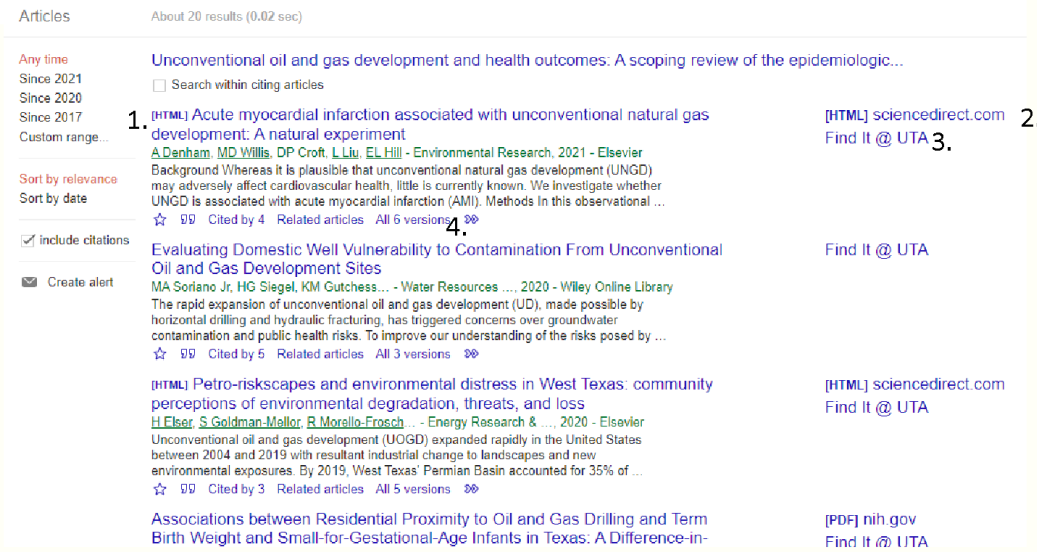
Link to item on publisher's site

Link to item at the specific library

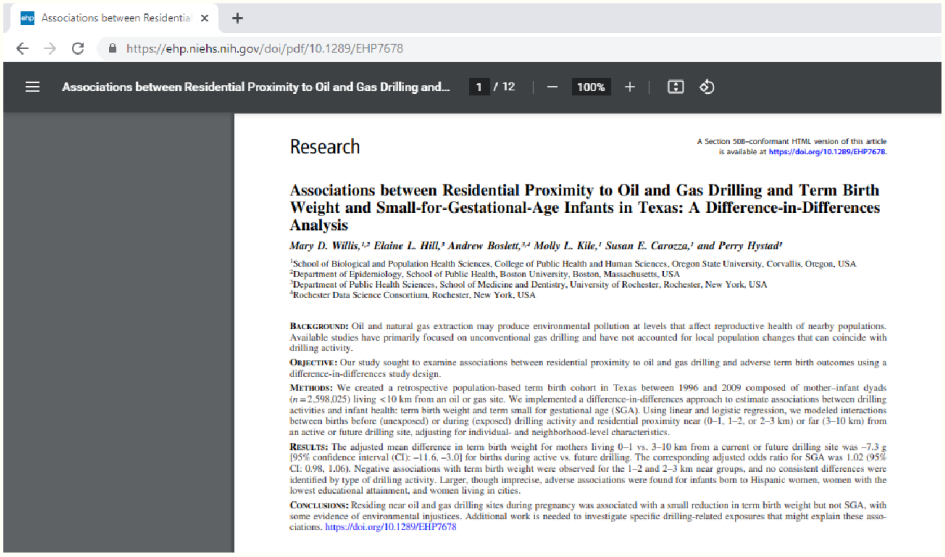
Obtaining a Document

Click on a link –
1. title of document,
2. publisher's link
3. library link
   Or
4. *versions* link

A new window will open. If the item is available, follow the prompts to display for reading or downloading.



Example:
Full text article to read or download



Associations between Residential Proximity to Oil and Gas Drilling and... 1 / 12 100%

Research

A Section 508–conformant HTML version of this article is available at https://doi.org/10.1289/EHP7678.

Associations between Residential Proximity to Oil and Gas Drilling and Term Birth Weight and Small-for-Gestational-Age Infants in Texas: A Difference-in-Differences Analysis

Mary D. Willis,[1,2] Elaine L. Hill,[3] Andrew Boslett,[3,4] Molly L. Kile,[1] Susan E. Carozza,[1] and Perry Hystad[1]

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[2]Department of Epidemiology, School of Public Health, Boston University, Boston, Massachusetts, USA
[3]Department of Public Health Sciences, School of Medicine and Dentistry, University of Rochester, Rochester, New York, USA
[4]Rochester Data Science Consortium, Rochester, New York, USA

Background: Oil and natural gas extraction may produce environmental pollution at levels that affect reproductive health of nearby populations. Available studies have primarily focused on unconventional gas drilling and have not accounted for local population changes that can coincide with drilling activity.

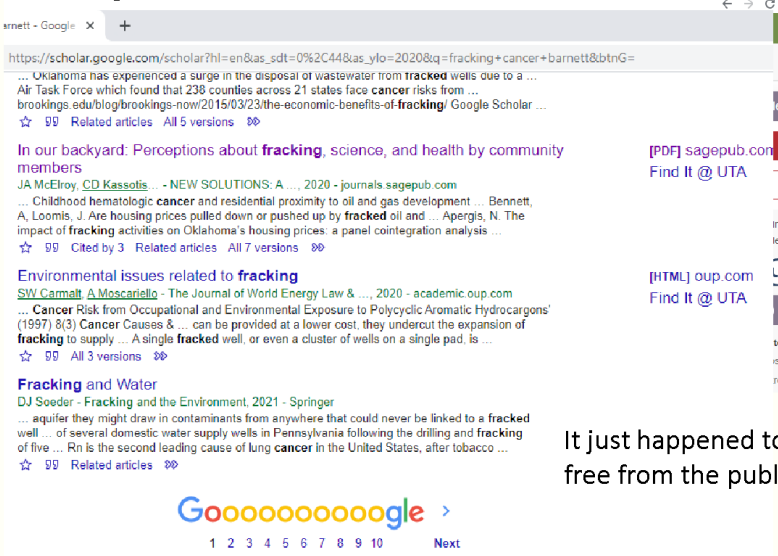
Objective: Our study sought to examine associations between residential proximity to oil and gas drilling and adverse term birth outcomes using a difference-in-differences study design.

Methods: We created a retrospective population-based term birth cohort in Texas between 1996 and 2009 composed of mother–infant dyads ($n = 2{,}598{,}025$) living <10 km from an oil or gas site. We implemented a difference-in-differences approach to estimate associations between drilling activities and infant health: term birth weight and term small for gestational age (SGA). Using linear and logistic regression, we modeled interactions between births before (unexposed) or during (exposed) drilling activity and residential proximity near (0–1, 1–2, or 2–3 km) or far (3–10 km) from an active or future drilling site, adjusting for individual- and neighborhood-level characteristics.

Results: The adjusted mean difference in term birth weight for mothers living 0–1 vs. 3–10 km from a current or future drilling site was −7.3 g [95% confidence interval (CI): −11.6, −3.0] for births during active vs. future drilling. The corresponding adjusted odds ratio for SGA was 1.02 (95% CI: 0.98, 1.06). Negative associations with term birth weight were observed for the 1–2 and 2–3 km near groups, and no consistent differences were identified by type of drilling activity. Larger, though imprecise, adverse associations were found for infants born to Hispanic women, women with the lowest educational attainment, and women living in cities.

Conclusions: Residing near oil and gas drilling sites during pregnancy was associated with a small reduction in term birth weight but not SGA, with some evidence of environmental injustices. Additional work is needed to investigate specific drilling-related exposures that might explain these associations. https://doi.org/10.1289/EHP7678

Surprise Full Text



https://scholar.google.com/scholar?hl=en&as_sdt=0%2C44&as_ylo=2020&q=fracking+cancer+barnett&btnG=

... Oklahoma has experienced a surge in the disposal of wastewater from **fracked** wells due to a ... Air Task Force which found that 238 counties across 21 states face **cancer** risks from ... brookings.edu/blog/brookings-now/2015/03/23/the-economic-benefits-of-**fracking**/ Google Scholar ...
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JA McElroy, CD Kassotis ... - NEW SOLUTIONS: A ..., 2020 - journals.sagepub.com
... Childhood hematologic **cancer** and residential proximity to oil and gas development ... Bennett, A, Loomis, J. Are housing prices pulled down or pushed up by **fracked** oil and ... Apergis, N. The impact of **fracking** activities on Oklahoma's housing prices: a panel cointegration analysis ...
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Environmental issues related to **fracking**
SW Carmalt, A Moscariello - The Journal of World Energy Law & ..., 2020 - academic.oup.com
... **Cancer** Risk from Occupational and Environmental Exposure to Polycyclic Aromatic Hydrocargons' (1997) 8(3) **Cancer** Causes & ... can be provided at a lower cost, they undercut the expansion of **fracking** to supply ... A single **fracked** well, or even a cluster of wells on a single pad, is ...
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Fracking and Water
DJ Soeder - **Fracking** and the Environment, 2021 - Springer
... aquifer they might draw in contaminants from anywhere that could never be linked to a **fracked** well ... of several domestic water supply wells in Pennsylvania following the drilling and **fracking** of five ... Rn is the second leading cause of lung **cancer** in the United States, after tobacco ...
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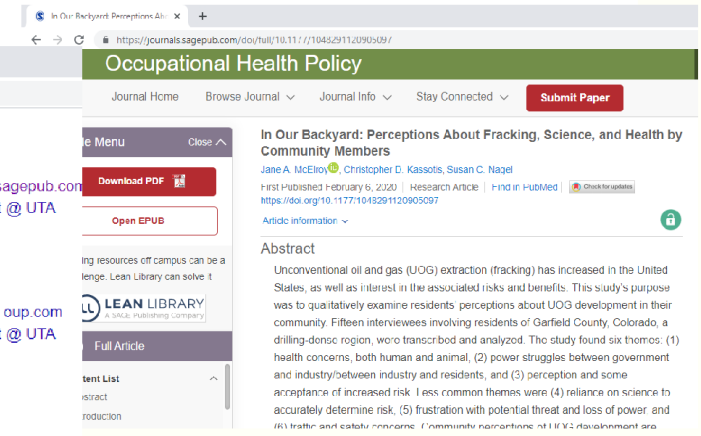

https://journals.sagepub.com/doi/full/10.1177/1048291120905097

Occupational Health Policy

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In Our Backyard: Perceptions About Fracking, Science, and Health by Community Members

Jane A. McElroy, Christopher D. Kassotis, Susan C. Nagel

First Published February 6, 2020 | Research Article | Find in PubMed | Check for updates
https://doi.org/10.1177/1048291120905097

Article information

Abstract

Unconventional oil and gas (UOG) extraction (fracking) has increased in the United States, as well as interest in the associated risks and benefits. This study's purpose was to qualitatively examine residents' perceptions about UOG development in their community. Fifteen interviewees involving residents of Garfield County, Colorado, a drilling-dense region, were transcribed and analyzed. The study found six themes: (1) health concerns, both human and animal, (2) power struggles between government and industry/between industry and residents, and (3) perception and some acceptance of increased risk. Less common themes were (4) reliance on science to accurately determine risk, (5) frustration with potential threat and loss of power, and (6) traffic and safety concerns. Community perceptions of UOG development are

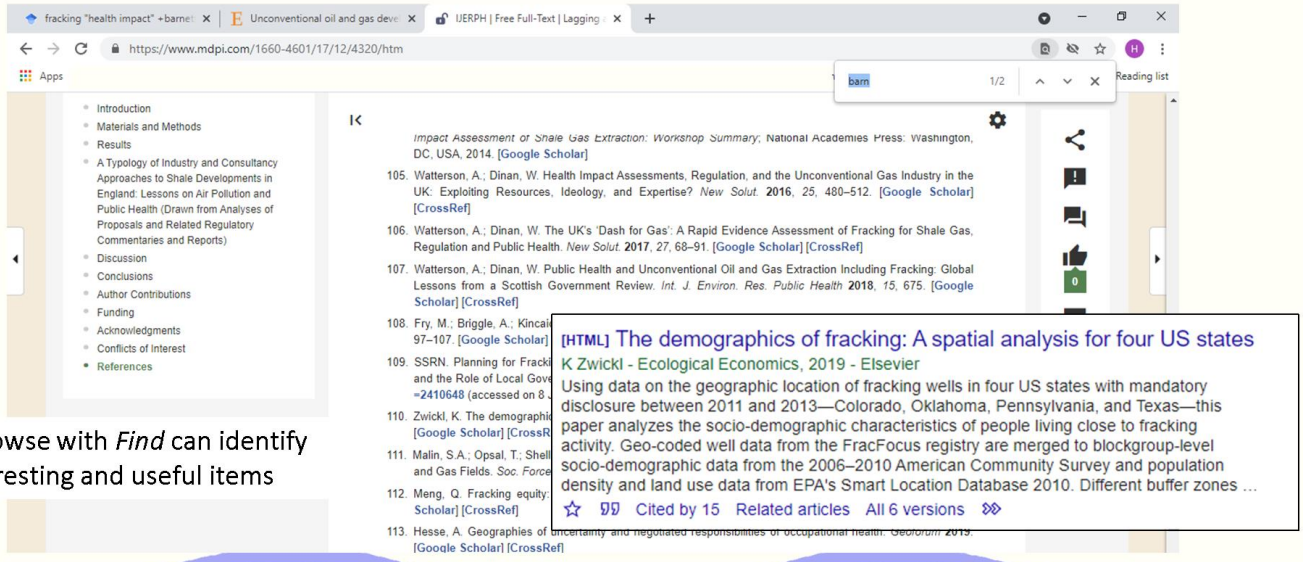
It just happened to be free from the publisher.

Odd Retrievals

Depending on what is needed, consider quickly exploring "odd" item.

For example, why did this England thing show up on a *Texas OR Colorado* search?

Quickly Display and *Find* <*Ctrl*><*f*>



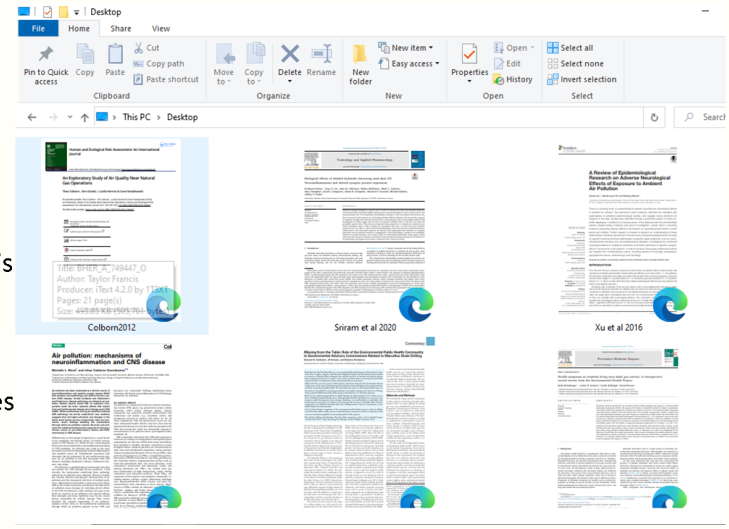
A fast browse with *Find* can identify very interesting and useful items

Managing Downloaded Files

A lot of items will come with some weird alphanumeric code as the file name.

Sometimes the file name is part of the title.

When one has many, consider renaming the files so they are easier to find.



Many people use the document name as the file name.
This results in a lot files that begin with *A*, *An*, or *The.*

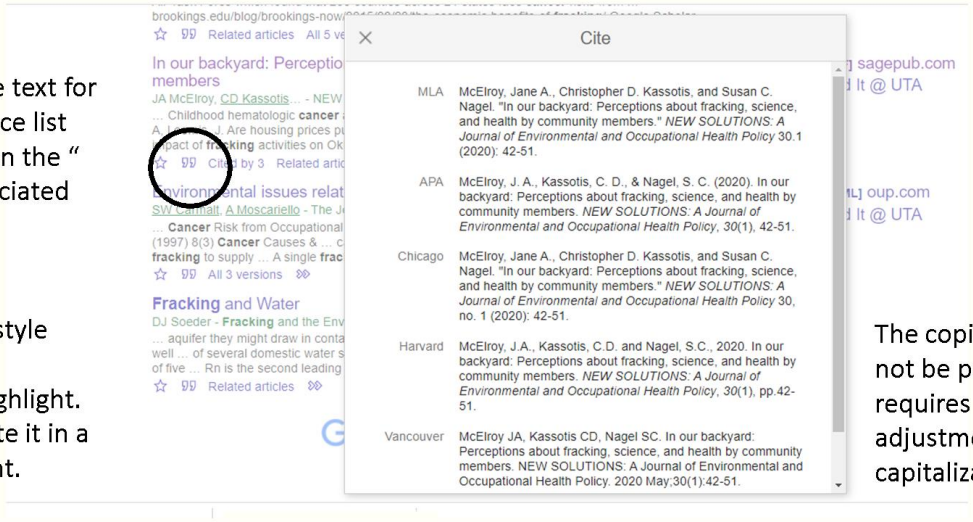
Consider using a version of the author date form used in high school and college (An author tends to write more than one article on the same general topic).

The item is then easier to locate.

Formal Reference Styles

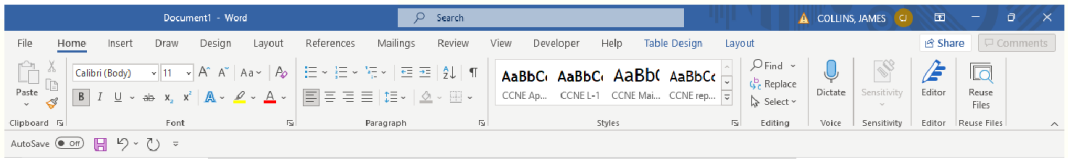
To obtain most the text for separate a reference list consider clicking on the " [quote mark] associated the specific item.

A list will appear.
Right click on the style format desired.
It will display in highlight.
Select *copy* to paste it in a different document.



The copied reference may not be perfect but usually requires only minor adjustments (often some capitalization, a doi, or link)

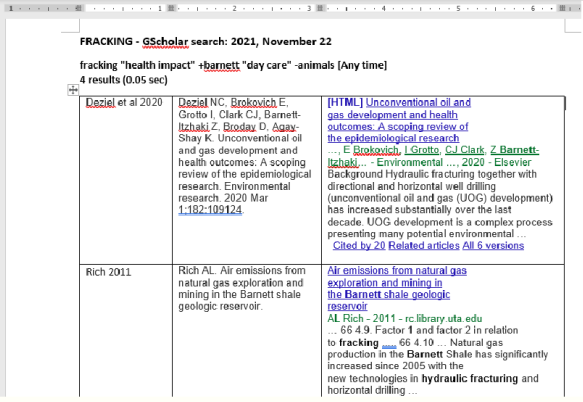
Sharing & Copyright



Copyright law constrains what can be freely shared. "Fair use" is often misunderstood.

It is wiser to share a URL instead of entire publications.

Consider sharing lists that include these links.



FRACKING - GScholar search: 2021, November 22

fracking "health impact" +barnett "day care" -animals [Any time]
4 results (0.05 sec)

Deziel et al 2020	Deziel NC, Brokovich E, Grotto I, Clark CJ, Barnett-Itzhaki Z, Broday D, Agay-Shay K. Unconventional oil and gas development and health outcomes: A scoping review of the epidemiological research. Environmental research. 2020 Mar 1;182:109124.	[HTML] Unconventional oil and gas development and health outcomes: A scoping review of the epidemiological research …, E Brokovich, I Grotto, CJ Clark, Z Barnett-Itzhaki, … - Environmental …, 2020 - Elsevier Background Hydraulic fracturing together with directional and horizontal well drilling (unconventional oil and gas (UOG) development) has increased substantially over the last decade. UOG development is a complex process presenting many potential environmental … Cited by 20 Related articles All 6 versions
Rich 2011	Rich AL. Air emissions from natural gas exploration and mining in the Barnett shale geologic reservoir.	Air emissions from natural gas exploration and mining in the Barnett shale geologic reservoir AL Rich - 2011 - rc.library.uta.edu … 66 4.9. Factor 1 and factor 2 In relation to fracking …, 66 4.10 … Natural gas production in the Barnett Shale has significantly increased since 2005 with the new technologies in hydraulic fracturing and horizontal drilling …

An easy way to create a list is to copy and paste the Gscholar display. One can clean it up later if desired.

Including the **Search strategy** and **retrieval date** is useful if the content is likely to be updated.
***A simple copy and paste of the search strategy from the list back to Gscholar works well.**

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Questions

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